



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **07069604 A**(43) Date of publication of application: **14.03.95**

(51) Int. Cl.

**C01B 15/029**(21) Application number: **05217439**(22) Date of filing: **01.09.93**(71) Applicant: **mitsubishi gas chem co inc**(72) Inventor:  
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**KAWAKAMI MICHIO****(54) PRODUCTION OF HYDROGEN PEROXIDE****(57) Abstract:**

**PURPOSE:** To obtain highly concd.  $H_2O_2$  with high hydrogen selectivity without incorporating halogen ion into a reaction medium by allowing  $O_2$  to react catalytically with  $H_2$  with a modified platinum-group metal catalyst on which Zr and/or Al and a platinum-group metal are simultaneously deposited.

**CONSTITUTION:** Zr and/or Al and a platinum-group metal

are simultaneously deposited on a carrier (aluminum oxide, silicon oxide, zirconium oxide, etc.) to prepare a modified platinum-group metal catalyst.  $O_2$  is allowed to react catalytically with  $H_2$  in a reaction medium by using the catalyst to obtain  $H_2O_2$ . The medium is formed with an aq. acidic soln. free of halogen ion and contg. an  $H_2O_2$  stabilizer such as aminotri(methylenephosphonic acid) and pyrophosphoric acid.

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